



FiberMINI® AF

FiberMINI® AutoFocus (AF) is a compact, lightweight design optimized for flat sheet Fiber Laser cutting. The head is capable of processing a wide range of materials with automatic, programmable focus. FiberMINI® AF delivers both user-friendly operation and reliable performance at an attractive price.

Features

- Compact, lightweight design
- Flexible design allows a wide range of spot sizes
- 14 mm of programmable autofocus to set focus position
- Temperature sensors protect optics and minimize the chance of overheating
- Quick, toolless access to the sealed cover glass
- End-user serviceable focus lens
- Sealed optics and purge air option
- Nozzle cooling for use with highly reflective materials
- Laser pierce, air blast option



Laser Mechanisms' ultra-compact FiberMINI® AF easily integrates into modern, three-axis laser cutting machine designs.

Specifications

CUTTING HEAD

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|--|---|
| Power Rating | up to 4 kW |
| Nominal Focusing Lens (Fused Silica, λ 1025-1080 nm) | 100 mm, 125 mm, 150 mm, 200 mm |
| Clear Aperture | 25 mm |
| Nozzle Orifices | 1 mm to 4 mm |
| Nozzle Styles | Single Orifice, Double, Multi-Hole Shower, Custom |
| Assist Gas Pressure | up to 20 BAR |
| Autofocus Response Time | 14 msec./mm |
| Focal Point To Nozzle Adjustment | -9 mm to +5 mm |
| Weight | ~2.4 kg |

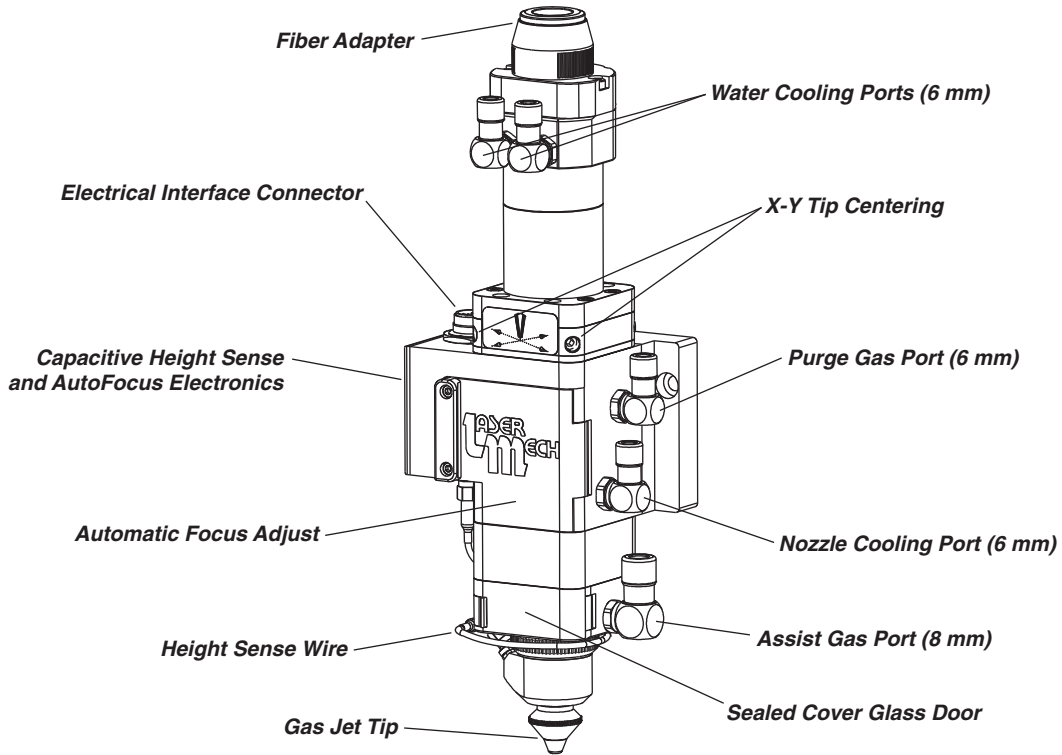
LASER MECH® COLLIMATOR

| | |
|---|--|
| Nominal Collimating Lens (Fused Silica, λ 1025-1080 nm) | 35 mm, 60 mm, 75 mm, 100 mm |
| Clear Aperture | 25 mm |
| Fiber Connection (Others Available On Request) | QBH (HLC-8), QD (LLK-D), LLK-B, PIPA-Q |

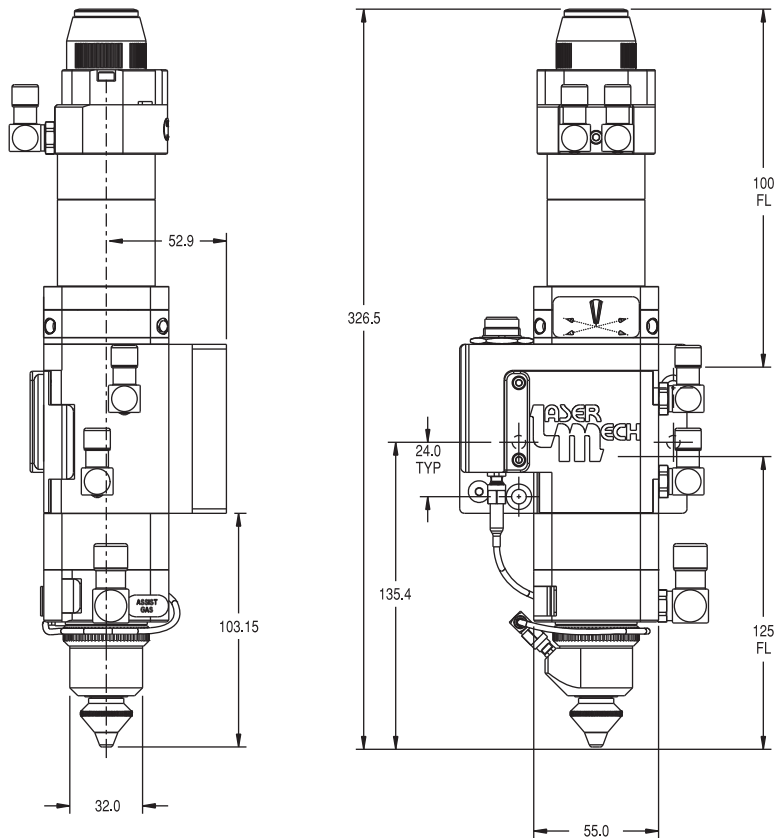
HEIGHT SENSOR

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|--|--|
| Standoff Distance Range (1 mm Recommended) | 0.2 mm to 8.0 mm |
| Calibration | Auto Calibrating |
| Response Time | <1 msec. |
| Temperature Stability | $\pm 5\%$ of Standoff Setting, 0° to 45° C |
| Power Requirement | 24 V |
| Output (Optimized Curve For Flat Metal or Linear Signal) | 0-10 V Analog |

Specifications subject to change without notice.



FiberMINI® AF shown with 100 mm collimator and 125 mm focal length. Other configurations available upon request.



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